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JAN 16 2004 PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	4239-64790
Application Number	10/677,943
Filing Date	October 1, 2003
First Named Inventor	Nelson
Art Unit	~~1632~~ 1644
Examiner Name	Szperka

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name
MS	A1	5,637,300	June 10, 1997	Dunbar *et al.*
MS	A2	6,027,727	Feb. 22, 2000	Harris *et al.*

OTHER DOCUMENTS

Examiner's Initials*	Cite No. (optional)	
MS	C1	Bouniol *et al.*, "Endogenous transcription occurs at the 1-cell stage in the mouse embryo," *Experimental Cell Research* 218:57-62, 1995.
	C2	Chattopadhyay *et al.*, "Antiovarian antibody in premature ovarian failure," *Indian J. Med. Sci.* 53(6):254-258, June 1999 (*Abstract only*)
	C3	Damewood *et al.*, "Circulating antiovarian antibodies in premature ovarian failure," *Obstet. Gynecol.* 68(6):850-854, December 1986 (*Abstract only*)
	C4	Damjanovic, "Experimental autoimmune oophoritis. II. Both lymphoid cells and antibodies are successful in adoptive transfer," *Autoimmunity* 9(3):217-223, 1991 (*Abstract only*)
	C5	De Angelo and Michael, "Cellular events associated with autoimmune oophoritis and ovarian tumorigenesis in neonatally thymectomized mice," *J. Reprod. Immunol.* 12(1):63-78, September 1987 (*Abstract only*)
	C6	De Angelo and Michael, "The effect of antisera to thymosin alpha 1 on the course of autoimmune ovarian dysgenesis in neonatally thymectomized mice," *J. Reprod. Immunol.* 11(1):41-53, May 1987 (*Abstract only*)
	C7	Garza *et al.*, "Mechanism of ovarian autoimmunity: induction of T cell and antibody responses by T cell epitope mimicry and epitope spreading," 37(2):87-101, February 1998 (*Abstract only*)
	C8	Govind *et al.*, "Delineation of a conserved B cell epitope on bonnet monkey (Macaca radiate) and human zona pellucida glycoprotein-B by monoclonal antibodies demonstrating inhibition of sperm-egg binding," *Biol. Reprod.* 62(1):67-75, January 2000 (*Abstract only*)
MS	C9	Hoek *et al.*, "Premature ovarian failure and ovarian autoimmunity," *Endocr. Rev.* 18(1):107-134, February 1997 (*Abstract only*)

EXAMINER SIGNATURE:	DATE CONSIDERED: 12/30/05

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TMH/GLB:kam 01/13/04 423964790 222736

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MS	C10	Kalantaridou and Nelson, "Autoimmune Premature Ovarian Failure: Of Mice and Women," *JAMWA* 53(1):18-20, 1998
	C11	Kalantaridou and Nelson, "Premature ovarian failure is not premature menopause," *Ann. NY Acad. Sci.*900:393-402, 2000 (*Abstract only*)
	C12	Kobe and Deisenhofer, "Proteins with leucine-rich repeats," *Curr. Opin. Struct. Biol.* 5:409-416, 1995
	C13	Kosiewicz and Michael, "Neonatal thymectomy affects follicle populations before the onset of autoimmune oophoritis in B6A mice," *J. Reprod. Fertil.* 88(2):427-440, March 1990 (*Abstract only*)
	C14	Lou *et al.*, "Rapid Induction of Autoantibodies by Endogenous Ovarian Antigens and Activated T Cells," *J. Immun.*, 156:3535-3540, May 1, 1996 (*Abstract only*)
	C15	Luborsky *et al.*, "Ovarian antibodies, FSH and inhibin B: independent markers associated with unexplained infertility," *Human Reprod.* 15(5):1046-1051, 2000
	C16	Melner and Feltus, "Editorial: AutoImmune Premature Ovarian Failure – Endocrine Aspects of a T Cell Disease," *Endocrin.* 140(8):3401-3403, 1999
	C17	Murray *et al.*, "Reproductive and menstrual history of females with fragile X expansions," *Eur. J. Hum. Genet.* 8(4):247-252, April 2000 (*Abstract only*)
	C18	Rabinowe *et al.*, "Lymphocyte dysfunction in autoimmune oophoritis. Resumption of menses with corticosteroids," *Am. J. Med.* 81(2):347-350, August 1986 (*Abstract only*)
	C19	Sakaguchi *et al.*, "Study on cellular events in postthymectomy autoimmune oophoritis in mice. I. Requirement of Lyt-1 effector cells for oocytes damage after adoptive transfer," *J. Exp. Med.* 156(6):1565-1576, December 1, 1982 (*Abstract only*)
	C20	Sakaguchi *et al.*, "Study on cellular events in postthymectomy autoimmune oophoritis in mice. II. Requirement of Lyt-1 cells in normal femalemice for the prevention of oophoritis," *J. Exp. Med.* 156(6):1577-1586, December 1, 1982 (*Abstract only*)
	C21	Smith *et al.*, "Effector and regulatory cells in autoimmune oophoritis elicited by neonatal thymectomy," *J. Immunol.*147(9):2928-2933, November 1, 1999 (*Abstract only*)
	C22	Taguchi *et al.*, "Autoimmune oophoritis in thymectomized mice: detection of circulating antibodies against oocytes," *Clin. Exp. Immunol.* 40(3):540-553, June 1980 (*Abstract only*)
	C23	Taguchi and Nishizuka, "Autoimmune oophoritis in thymectomized mice: T cell requirement in adoptive cell transfer," *Clin. Exp. Immunol.* 42:324-331, 1980
MS	C24	Tong and Nelson, "A Mouse Gene Encoding an Oocyte Antigen Associated with Autoimmune Premature Ovarian Failure," *Endocrin.* 140(8):3720-3726, 1999

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	C25	Tong *et al.*, "*Mater* encodes a maternal protein in mice with a leucine-rich repeat domain homologous to porcine ribonuclease inhibitor," *Mammal. Gen.* 11:281-287, 2000
	C26	Tung and Teuscher, "Mechanisms of autoimmune disease in the testis and ovary," *Hum. Reprod. Update* 1(1):35-50, January 1995 (*Abstract only*)
	C27	Tung *et al.*, "Murine autoimmune oophoritis, epididymoorchitis, and gastritis induced by day 3 thymectomy. Autoantibodies," *Am. J. Pathol.* 126(2):303-314, February 1987 (*Abstract only*)
	C28	Van Voorhis and Stovall, "Autoantibodies and infertility: a review of the literature," *J. Reprod. Immunol.* 33:239-256, 1997
	C29	Vegetti *et al.*, "Premature ovarian failure," *Mol. Cell Endorinol.* 161(1-2):53-57, March 30, 2000 (*Abstract only*)
	C30	Wheatcroft *et al.*, "Detection of antibodies to ovarian antigens in women with premature ovarian failure," *Clin. Exp. Immunol.* 96(1):122-128, April 1994 (*Abstract only*)
	C31	Xun *et al.*, "Interspecies-specific ovarian autoantigens involved in neonatal thymectomy-induced murine autoimmune oophoritis," *Am. J. Reprod. Immunol.* 29(4):211-218, May 1993 (*Abstract only*)
	C32	Yan *et al.*, "Identification of Premature Ovarian Failure Patients with Underlying Autoimmunity," *J. Womens Health Gend. Based Med.* 9(3):275-287, April 2000
	C33	GenBank Accession No. AAF64393, "maternal-antigen-that-embryos-require protein; MATER; ooplasm-specific protein; OP1 [Mus musculus]." April 19, 2000 (2 pages)
	C34	GenBank Accession No. AC011470, "Homo sapiens chromosome 19 clone CTC-490M10, complete sequence." October 18, 1999 (40 pages)
	C35	GenBank Accession No. AC012107, "Homo sapiens clone RP11-45K21, WORKING DRAFT SEQUENCE, 25 unordered pieces." October 21, 1999 (45 pages)
	C36	GenBank Accession No. AC023887, "Homo sapiens chromosome 15 clone RP11-541M19, WORKING DRAFT CLONE, 9 unordered pieces." April 21, 2000 (48 pages)
	C37	GenBank Accession No. AC024580, "Homo sapiens chromosome 19 clone CTD-2621I17, WORKING DRAFT SEQUENCE, 69 unordered pieces." May 4, 2000 (32 pages)
	C38	GenBank Accession No. AF074018_1, "MATER protein [Mus musculus]." May 10, 2000 (2 pages)

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	C39	GenBank Accession No. AF143559, "Mus musculus maternal-antigen-that-embryos-require protein (Mater) gene, exon 1," April 19, 2000 (12 pages)
	C40	GenBank Accession No. AV367637, "Mus musculus 16 days embryo lung cDNA, RIKEN full-length enriched library, clone:8430436F06, 3' end partial sequence." November 5, 1999 (2 pages)
	C41	GenBank Accession No. NM_011860, "Mus musculus ooplasm (Op1), mRNA." February 28, 2000 (3 pages)
	C42	GenBank Accession No. NP_035990, "ooplasm [Mus musculus]." February 26, 2000 (2 pages)
	C43	GenBank Accession No. Z86039, "B. taurus mRNA for hypothetical protein (oocyte transcript)," September 11, 1997 (1 page)
	C44	[redacted]ugsp.info.nih.gov/BioResearch/lastbest.htm, "Two Things Every Little Girl Wants," downloaded July 27, 2000 (2 pages)
	C45	[redacted]www.nih.gov/new/NIH-Record/09_24_96/story07.htm, "Hope for Women Facing Infertility Treatment," downloaded July 27, 2000 (1 page)
	C46	[redacted]www.nih.gov/news/pr/jan98/nichd-30.htm, "Ovarian Disorder Places Women at Risk for Bone Loss, downloaded July 27, 2000 (2 pages)

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